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gone through four editions. The result was that Forsyth gave them, in 1885, a work of his own with the same title. The second edition appeared in 1888; the third, much enlarged, in 1903, and the last, eleven years later, still further increased in size. The Italian translation, by Arbicone, of the second English edition was published in 1901[1] and the German edition by Maser (with an appendix containing solutions of the problems) in 1889; the second German edition came out in 1912,[2] but the solutions given were only of the problems of the second English edition.

In preparing his volume of solutions Forsyth worked out each example himself and found that, "with possibly three exceptions, all the equations have proved soluble." He remarks further: "The first German edition . . . translated by the late Dr. H. Maser contained the solutions of most of the examples in my own first and second editions—not a few of them were supplied to him by me. But my later editions contained a vast added array of equations, not solved in the second German edition. To make the volume complete, all the questions (except where the results were taken from original memoirs) were worked out anew from the beginning."

"I have had in mind principally the needs of teachers and only subsidiarily the case of students who are in a position to follow courses of instruction."

Text-book on Navigation and Nautical Astronomy. By J. GILL. Revised and enlarged by W. V. Merrifield. New edition. London, Longmans, 1918. 8vo, 8 + 438 + 12 pp. Price 20 shillings.

Contents: Part I, pp. 1–262: Projections; definitions and instruments; logarithms; solution of plane triangles; solution of spherical triangles; the sailings; tides; reduction of soundings; time; elements from the 'Nautical Almanac'; sidereal and solar time; corrections of altitudes; latitude by meridian altitudes; latitude by ex-meridian altitude; compass error by amplitudes; compass error by azimuths; longitude by chronometer; Sumner's method of projection; the chart; use of Napier's diagram; great circle sailing; latitude by double altitudes; finding error of chronometer; calculation of altitudes; longitude by linear distances. Part II, pp. 263–342: Construction of charts; laws of storms; magnetism and deviation of the compass; syllabus; miscellaneous problems. Appendix, pp. 343–402. Answers, 403–438. Tide Tables 1–12.

Quotations from the preface to the new edition: "The new features in this edition are—(1) Rearrangement, by which the proofs of the various problems are inserted at the beginning of the separate chapters instead of being collected in one chapter at the end of the book. . . . (2) All the astronomical examples are fresh, the necessary rules are given for working them, and, where possible, an example is worked direct from the figure, without using special formulæ. . . . (3) The necessary elements from the 'Nautical Almanac' are embodied in the book in the form found in the 'N. A.' . . . (4) The chapters on trigonometry have been entirely rewritten. . . . (5) New chapters have been introduced on the projections by which any figure may be drawn to scale, and on the correction of altitudes. (6) The chapters on tides and tidal soundings have been rewritten to suit the recent tide tables, extracts from which are found at the end of the book."

A Vest-pocket Handbook of Mathematics for Engineers. By L. A. WATERBURY, with special sections by G. A. GOODENOUGH and H. H. HIGBIE. Third edition, enlarged (total issue twelve thousand). New York, Wiley, 1918. 16mo, 13 + 278 pp. Flexible cover, gilt. Price $1.50.

The first edition of this *Handbook* was in 1908; tables were added in 1909. To the second edition in 1915 sections on hydraulics and reinforced concrete, and a table of conversion factors were added. The principal additions to the present edition are the sections on heat engineering by Professor Goodenough, and on electrical engineering by Professor Higbie, with the corresponding related tables. The contents of the work are as follows: Algebra (exponents and logarithms; proportion; progressions; quadratic, cubic, higher equations; graphical solutions of

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[1] *Trattato sulle equazioni differenziale.* Prima versione dall'inglese di Alfredo Arbicone. Livorno, 1901. 12 + 337 pp.

[2] *Lehrbuch der Differentialgleichungen.* Von A. R. FORSYTH (mit den Auflösungen der Aufgaben von Hermann Maser). Zweite Auflage, nach der dritten des englischen Originals besorgt und mit einem Anhang von Zusätzen versehen von W. Jacobsthal. Braunschweig, Vieweg, 1912. 22 + 921 pp. Reviewed by R. D. CARMICHAEL in *Bull. Amer. Math. Soc.*, Vol. 19, pp. 256–259. Feb., 1913.